WHAT IS CLAIMED IS:

- 1 1. A method for internationalizing content of an electronic document comprising:
- associating a predefined parameter with content in a source web page to be
- 3 translated; and
- 4 inserting entries corresponding to translations of the content in the source web
- 5 page into an indexable dictionary file,
- 6 wherein a dictionary driven stylesheet may be applied to the source web page in
- order to retrieve a translation of a particular text string from the indexable dictionary file.
- 1 2. The method of claim 1, wherein the associating step comprises associating an
- 2 NLSID with textual content in the source web page to be translated, the NLSID being
- 3 associated with the textual content in markup language code supporting the source web
- 4 page.
- 1 3. The method of claim 1, wherein inserting entries comprises:
- 2 locating a root entry corresponding to the source web page;
- inserting a sub-root entry corresponding to a term to be translated; and
- 4 inserting at least one translation entry as a sub-entry of the sub-root entry.
- 1 4. The method of claim 1, wherein the application of the dictionary driven stylesheet
- 2 comprises:
- 3 locating textual content having the predefined parameter associated therewith in
- 4 the source web page;
- 5 indexing into the dictionary file to find a root entry corresponding to the
- 6 predefined parameter;
- 7 indexing into sub-root entries to find an entry corresponding to the textual
- 8 content; and
- 9 indexing into children of the sub-root entries to find a translation entry for textual content.

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- 1 5. The method of claim 4, wherein the step of indexing into the children of the sub-
- 2 root entries further comprises:
- determining a target language; and
- 4 indexing into the children of the sub-root entry to find a child entry corresponding
- 5 to the target language.
- 1 6. The method of claim 4, wherein the step of indexing into the dictionary file
- 2 further comprises indexing into the dictionary file to find a root entry that matches an
- 3 NLSID associated with the textual content.
- 1 7. The method of claim 1, the method further comprising the steps of:
- 2 generating the indexable dictionary file with a markup language; and
- generating the generic dictionary driven stylesheet with a markup language.
- 1 8. The method of claim 7, wherein the indexable dictionary file further comprises at
- 2 least one root entry corresponding to an NLSID associated with a portion of text to be
- translated from the source web page, at least one sub-root entry corresponding to the text
- 4 to be translated, and at least one child sub-root entry corresponding to the available
- 5 translations for the portion of text.
- 1 9. The method of claim 7, wherein the dictionary driven stylesheet further comprises
- 2 at least one template match operation configured to copy all untouched nodes from a
- 3 source document to a destination document, and at lest one template match statement
- 4 configured to translate text in the source document via access into the indexable
- 5 dictionary file.
- 1 10. The method of claim 1, wherein the electronic document further comprises a web
- 2 page.

- 1 11. The method of claim 1, wherein the stylesheet further comprises a generic
- 2 dictionary driven stylesheet that may be reused for various applications.
- 1 12. A method for translating text in an electronic document comprising:
- 2 inserting a predetermined parameter into a source code of the electronic
- 3 document, the predetermined parameter indicating that an associated portion of text is to
- 4 be translated;
- inserting an entry representing a translation of the associated portion of text into
- 6 an electronic dictionary file; and
- applying a dictionary driven generic stylesheet to the electronic document in order
- 8 to retrieve the translation of the associated portion of text.
- 1 13. The method of claim 12, wherein the step of inserting a predetermined parameter
 - comprises:
- determining what portions of text are to be translated in a source document; and
- 4 associating an NLSID with the portions of text determined to be translated in the
- 5 source document, the NLSID being associated with the portions of text to be translated in
- 6 the source code of the source document.
- 1 14. The method of claim 12, wherein the source code further comprises a markup
- 2 language code set.
- 1 15. The method of claim 14, wherein the markup language code set further comprises
- 2 at least one of a hypertext markup language code set and an extensible markup language
- 3 code set.
- 1 16. The method of claim 12, wherein the step of inserting an entry into an electronic
- 2 dictionary file further comprises:
- locating a root entry in the electronic dictionary file corresponding to the

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4	predetermined parameter;
5	inserting a sub-root entry corresponding to the portion of text to be translated; and
6	inserting at least one sub-root child entry, wherein each sub-root child entry
7	corresponds to a translation of the portion of text in a particular language.
1	17. The method of claim 16, wherein the locating step further comprises locating a
2	root entry in the electronic dictionary file corresponding to an NLSID associated with the
3	portion of text to be translated.
1	18. The method of claim 12, wherein the step of applying a dictionary driven
2	generic stylesheet comprises:
3	determining at least one portion of text in a source document having the
4	predetermined parameter associated therewith;

searching in sub-root entries of the electronic dictionary to find an entry corresponding to the portion of text to be translated; and

searching in the electronic dictionary file to find a root entry corresponding to the

- searching in children of the sub-root entries in the electronic dictionary to find a translation entry for textual content.
- 1 19. The method of claim 18, wherein determining at least one portion of text having
- 2 the predetermined parameter associated therewith further comprises indexing into the
- 3 source code of an electronic document to locate text having an NLSID associated
- 4 therewith.
- 1 20. The method of claim 18, wherein searching in the electronic dictionary file to find
- a root entry further comprises indexing into the electronic dictionary file with an NLSID
- 3 to find a root entry match.

predetermined parameter;

- 1 21. The method of claim 18, wherein searching in children of the sub-root entries
- 2 further comprises indexing into the children of the sub-root entries with a preferred
- 3 language parameter to find a match.
- 1 22. A computer readable medium storing a software program that, when executed by
- a computer, causes the computer to perform a method comprising:
- associating a predefined parameter with content in a source web page to be
- 4 translated;
- 5 inserting entries corresponding to translations of the content in the source web
- 6 page into an indexable dictionary file; and
- applying a generic dictionary driven stylesheet to the source web page, wherein
- 8 the application of the stylesheet operates to retrieve a translation of a particular text string
- 9 from the indexable dictionary file.
- 1 23. The computer readable medium of claim 22, wherein the associating step
- 2 comprises associating an NLSID with textual content in the source web page to be
- 3 translated, the NLSID being associated with the textual content in markup language code
- 4 supporting the source web page.
- 1 24. The computer readable medium of claim 22, wherein inserting entries comprises:
- 2 locating a root entry corresponding to the source web page;
- inserting a sub-root entry corresponding to a term to be translated; and
- 4 inserting at least one translation entry as a sub-entry of the sub-root entry.
- 1 25. The computer readable medium of claim 22, wherein applying a generic
- 2 dictionary driven stylesheet comprises:
- 3 searching through the source web page to find textual content having the
- 4 predefined parameter associated therewith;
- 5 indexing into the dictionary file to find a root entry corresponding to the

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- 6 predefined parameter;
- 7 indexing into sub-root entries to find an entry corresponding to the textual
- 8 content; and
- 9 indexing into children of the sub-root entries to find a translation entry for textual
- 10 content.
- 1 26. The computer readable medium of claim 25, wherein the step of indexing into the
- 2 children of the sub-root entries further comprises:
- determining a target language; and
- 4 indexing into the children of the sub-root entry to find a child entry corresponding
- 5 to the target language.
- 1 27. The computer readable medium of claim 25, wherein the step of indexing into the
- 2 dictionary file further comprises indexing into the dictionary file to find a root entry that
- matches an NLSID associated with the textual content.
- 1 28. The computer readable medium of claim 22, the method further comprising the
- 2 steps of:
- generating the indexable dictionary file with a markup language; and
- 4 generating the generic dictionary driven stylesheet with a markup language.
- 1 29. The computer readable medium of claim 28, wherein the step of generating the
- 2 indexable dictionary file further comprises creating the indexable dictionary file, wherein
- 3 the dictionary file includes at least one root entry corresponding to an NLSID associated
- 4 with a portion of text to be translated from the source web page, at least one sub-root
- 5 entry corresponding to the text to be translated, and at least one child sub-root entry
- 6 corresponding to the available translations for the portion of text.
- 1 30. The computer readable medium of claim 28, wherein the step of generating the

- 2 generic dictionary driven stylesheet further comprises creating the generic dictionary
- driven stylesheet, wherein the generic dictionary driven stylesheet includes at least one
- 4 template match operation configured to copy all untouched nodes from a source
- 5 document to a destination document, and at lest one template match statement configured
- 6 to translate text in the source document via access into the indexable dictionary file.
- 1 31. A computer readable medium storing a software program that, when executed by
- 2 a processor, causes the processor to perform a method comprising:
- inserting a predetermined parameter into a source code of the electronic
- 4 document, the predetermined parameter indicating that an associated portion of text is to
- 5 be translated;
- 6 inserting an entry representing a translation of the associated portion of text into
- 7 an electronic dictionary file; and
- 8 applying a dictionary driven generic stylesheet to the electronic document in order
- 9 to retrieve the translation of the associated portion of text.
- 1 32. The computer readable medium of claim 31, wherein the step of inserting a
- 2 predetermined parameter comprises:
- determining what portions of text are to be translated in a source document; and
- 4 associating an NLSID with the portions of text determined to be translated in the
- source document, the NLSID being associated with the portions of text to be translated in
- 6 the source code of the source document.
- 1 33. The computer readable medium of claim 31, wherein the source code further
- 2 comprises a markup language code set.
- 1 34. The computer readable medium of claim 33, wherein the markup language code
- 2 set further comprises at least one of a hypertext markup language code set and an
- 3 extensible markup language code set.

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- 1 35. The computer readable medium of claim 31, wherein the step of inserting an entry into an electronic dictionary file further comprises:
- locating a root entry in the electronic dictionary file corresponding to the predetermined parameter;
- inserting a sub-root entry corresponding to the portion of text to be translated; and
- 6 inserting at least one sub-root child entry, wherein each sub-root child entry
- 7 corresponds to a translation of the portion of text in a particular language.
- 1 36. The computer readable medium of claim 35, wherein the locating step further
- 2 comprises locating a root entry in the electronic dictionary file corresponding to an
- 3 NLSID associated with the portion of text to be translated.
- The computer readable medium of claim 31, wherein the step of applying a
- 2 dictionary driven generic stylesheet comprises:
 - determining at least one portion of text in a source document having the predetermined parameter associated therewith;
 - searching in the electronic dictionary file to find a root entry corresponding to the predetermined parameter;
- searching in sub-root entries of the electronic dictionary to find an entry corresponding to the portion of text to be translated; and
- 9 searching in children of the sub-root entries in the electronic dictionary to find a 10 translation entry for textual content.
- 1 38. The computer readable medium of claim 37, wherein determining at least one
- 2 portion of text having the predetermined parameter associated therewith further comprises
- 3 indexing into the source code of an electronic document to locate text having an NLSID
- 4 associated therewith.
 - 39. The computer readable medium of claim 37, wherein searching in the electronic

- 2 dictionary file to find a root entry further comprises indexing into the electronic
- 3 dictionary file with an NLSID to find a root entry match.
- 1 40. The computer readable medium of claim 37, wherein searching in children of the
- 2 sub-root entries further comprises indexing into the children of the sub-root entries with a
- 3 preferred language parameter to find a match.
- 1 41. An apparatus for translating text in electronic documents, the apparatus
- 2 comprising a memory having a translation program stored therein, and a processor in
- 3 communication with the memory, wherein the processor is configured to execute the
- 4 program stored in the memory, the computer program being configured to:
- determine at least one portion of text in a source document having the
- 6 predetermined parameter associated therewith;
 - search in an electronic dictionary file to find a root entry corresponding to the
- 8 predetermined parameter;
- 9 search in sub-root entries of the electronic dictionary to find an entry
- 10 corresponding to the portion of text to be translated; and
- search in children of the sub-root entries in the electronic dictionary to find a
- translation entry for textual content.
- 1 42. The apparatus of claim 41, wherein determining at least one portion of text having
- 2 the predetermined parameter associated therewith further comprises indexing into the
- 3 source code of an electronic document to locate text having an NLSID associated
- 4 therewith.
- 1 43. The apparatus of claim 41, wherein searching in the electronic dictionary file to
- 2 find a root entry further comprises indexing into the electronic dictionary file with an
- 3 NLSID to find a root entry match.

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- 1 44. The apparatus of claim 41, wherein searching in children of the sub-root entries
- 2 further comprises indexing into the children of the sub-root entries with a preferred
- 3 language parameter to find a match.